

## Patent Abstracts of Japan

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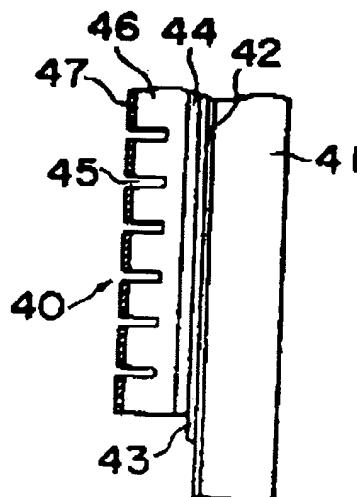
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APPLICANT : RICOH CO LTD;

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TITLE : ELECTRON BEAM SCANNING TYPE  
ELECTRO-OPTICAL VALVE

**ABSTRACT :** PURPOSE: To suppress damage of an electro-optical modulation plate to the minimum and improve its resolution, by means of an electro-optical modulation plate by consisting of a transparent base plate on which an electro-optical crystal provided with measuring lattice like channels of approximately one picture element size is fixed.

**CONSTITUTION:** A transparent electrode 42 is set on one surface of a transparent glass base plate 41, a comparatively thin glass solder layer 43 is laid on the upper surface of the transparent electrode 42, and one side surface of an electric optical crystal 46 provided with measuring lattice like small channels 45 cut on its other surface at very little intervals, is set on the glass solder layer 43 via a transparent electrode 44, and fixed by melting. Then, glass powder is charged in the channels 45, a metal mirror 47 is formed by evaporating aluminium on the surface of the electro-optical crystal 46 with the glass powder used as a mask, and then, an electro-optical modulation plate 40 is formed by removing the glass powder from the channels 45.

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